



UMODPC



Hazardous Material (HAZMAT) Orientation

612-302-03



Hazardous Material Definition



- “A substance or material which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety and property when transported in commerce... The term includes hazardous substances, hazardous wastes, marine pollutants...”
- Title 49, Code of Federal Regulations



Definition of a HAZMAT Employee



- A hazardous materials employee is any person “...who directly affects hazardous materials transportation safety...”
 - Loads, unloads, or handles hazardous material;
 - Prepares hazardous materials for transportation;
 - Is responsible for the safety of transporting hazardous materials; or



Definition of a HAZMAT Employee (Cont)



- Operates a vehicle used to transport hazardous materials."
- What does this mean to you as UMO and to personnel in your unit? Any one who handles, packages or ships any hazardous material is considered an employee.

Title 49, Code of Federal Regulations



Definition of a HAZMAT Employer



- A hazardous materials employer is defined as “a person who uses one or more of his employees in connection with:
 - Transporting hazardous materials ... Causing them to be transported or shipped in commerce...
 - This term includes any department, agency ... of the United States.”



Definition of a HAZMAT Employer (Cont)



- You, as the UMO, become an “employer” when you direct troops to load out a vehicle or container containing HAZMAT.
- Make sure you know what unit personnel must do to correctly handle, package and certify HAZMAT.



HAZMAT Awareness



- The minimal level of training established by DOT requires HAZMAT employees to:
 - Recognize & identify hazardous materials shipments
 - Understand the numeric hazard class numbering system
 - Understand the hazards presented by the nine United Nations (UN) hazard classes & their subdivisions





HAZMAT Awareness (Cont)



- Although the UMO should not be the HAZMAT certifier, the UMO must be aware of dangerous or potentially dangerous materials the unit is handling, shipping or storing
- Something as simple as a variety of consumer commodities could be potentially dangerous
 - Many "off the shelf" items from WD-40 to aftershave are classified by DOT as "Hazardous Materials"



Shipper's Certification



- Each person (shipper) who offers a hazardous material for shipment shall certify that the material offered is in accordance with the provisions of the applicable 49 CFR subchapter
- The person who certifies the information about the hazardous material must be certified according to 49 CFR, para 172.204
(a) (2)



Penalties for Non-Compliance --Civil



- "Knowingly" violating the regulations
 - Making an "honest" mistake, i.e. failing to know something that should have been known, or failing to catch the error even if known
 - For example, one shipment has an incorrect label
- Fine: \$250 to \$27,500 dollars per day per every error or violation



Penalties for Non-Compliance -- Criminal



- "Willfully" violating the regulations
 - Making a conscious decision not to follow the rules
 - + Example: Deliberately concealing or mis-declaring a shipment of hazardous material
- This is a *felony* offense & could result in fines of up to \$500,000 per day or up to 5 years in prison



Regulation Conflicts



- Always consult regulation for specific mode of transportation to be used to avoid conflicts





49 CFR



- Code of Federal Regulations for the transportation of hazardous material
- This publication is commonly referred as CFR 49





49 CFR – Key Paragraphs



- Useful paragraphs:
 - Para 171.8, Definitions & Abbreviations
 - Para 172.101, Hazardous Materials Table
 - Para 172.101, Appdx A, Table 1 - Hazardous Substances other than Radionuclides
 - Para 172.101, Appdx B, List of Marine Pollutants
 - Para 172.504, Table 1&2, Category of Material (Hazard class or division)
 - Para 172.704, Training Requirements



49 CFR – Hazardous Material Table



§ 172.101 HAZARDOUS MATERIALS TABLE

Symbol	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Number	PG	Label Codes	Special provisions	(8) Packaging (§173.***)			(9) Quantity limitations		(10) Vehicle storage	
							Excepted	Non-bulk	Bulk	Passenger aircraft only	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
D	Accelerators, see Nitrosodimethylaniline.	2.2	NA1955	2.2									
	Accumulators, electric, see Batteries, wet etc.												
	Accumulators, pressurized, pneumatic or hydraulic (containing non-flammable gas).						208	206	None	No limit	No limit	A	
A	Acetal	3	UN1959	3		1	150	202	242	5 L	60 L	E	
	Acetaldehyde	3	UN1959	3		A3, B16, T23, T25, T29	None	201	203	Forbidden	30 L	E	
	Acetaldehyde ammonia	9	UN1941	9		B1, T8	155	204	240	200 kg	200 kg	A	34
	Acetaldehyde oxide	3	UN2232	3			150	203	242	60 L	233 L	A	
	Acetic acid, glacial or Acetic acid solution, with more than 80 percent acid, by mass.	8	UN2799	8	8, 9	A3, A6, A7, A10, B2, T8	154	202	240	1 L	33 L	A	
	Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass.	8	UN2790	8	8	A3, A6, A7, A10, B2, T8	154	202	242	1 L	33 L	A	
	Acetic acid solution, with more than 10 percent and less than	8	UN2790	8	8	T8	154	203	242	5 L	60 L	A	

§ 172.101 HAZARDOUS MATERIALS

Sym-bols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Acetone	3	UN1090	II	3	
	Acetone cyanohydrin, stabilized	6.1	UN1541	I	6.1	2, A3, B9, B32, B76, B34, T38, T
	Acetone oils	3	UN1091	II	3	T7, T
	Acetonitrile	3	UN1648	II	3	T
	Acetyl acetone peroxide with more than 9 percent by mass active oxygen.	Forbidden			
	Acetyl benzoyl peroxide, solid, or with more than 40 percent in solution.	Forbidden			

1 HAZARDOUS MATERIALS TABLE

Label Codes (6)	Special provisions (7)	(8) Packaging (§173.***)			(9) Quantity limitations		(10) Vessel stowage	
		Excep- tions (8A)	Non- bulk (8B)	Bulk (8C)	Passenger aircraft/rail (9A)	Cargo air- craft only (9B)	Loca- tion (10A)	Other (10B)
2.2		306	306	None	No limit	No limit	A	
3	T7	150	202	242	5 L	60 L	E	
3	A3, B16, T20, T26, T29	None	201	243	Forbidden	30 L	E	
9		155	204	240	200 kg	200 kg	A	34
3	B1, T8	150	203	242	60 L	220 L	A	
8, 3	A3, A6, A7, A10	154	202	243	1 L	30 L	A	



49 CFR (Cont)



§ 172.101

49 CFR Ch. I (10-1-99 Edition)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Acetamide	100 (45.4)
Acetamide, N-(aminothioxanemethyl)-	1000 (454)
Acetamide, N-(4-ethoxyphenyl)-	100 (45.4)
Acetamide, N-fluoren-2-yl-	1 (0.454)
Acetamide, 2-fluoro-	100 (45.4)
Acetic acid	5000 (2270)
Acetic acid (2,4-dichlorophenoxy)-	100 (45.4)
Acetic acid, ethyl ester	5000 (2270)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead (2+) salt	10 (4.54)
Acetic acid, thallium(I+) salt	1000 (454)
Acetic anhydride	5000 (2270)
Acetone	5000 (2270)
Acetone cyanohydrin	10 (4.54)
Acetonitrile	5000 (2270)
Acetophenone	5000 (2270)
2-Acetylaminofluorene	1 (0.454)
Acetyl bromide	5000 (2270)

In pounds/
kilograms

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49 CFR (Cont)



§ 172.101

49 CFR Ch. I (10–1–99 Edition)

S.M.P.	Marine Pollutant	S.M.P.	Marine Pollutant
(1)	(2)	(1)	(2)
PP	Benzyl chloroformate	PP	Chlorpyrifos
	Binapacryl	PP	Chlortriophos
PP	N,N-Bis (2-hydroxyethyl) oleamide (LOA)		Coal tar
	Biodifacuum		Coal tar naphtha
	Bromine cyanide		Cocculus
	Bromoacetone		Coconilla
	Bromobenzene		Copper acetoarsenite
	Bromobenzene		Copper arsenite
	ortho-Bromobenzyl cyanide		Copper arsenite
	Bromocycane	PP	Copper arsenite
	Bromoforn	PP	Copper chloride solution
PP	Bromophos-ethyl	PP	Copper cyanide
	3-Bromopropene	PP	Copper metal powder
	Bromoxynil	PP	Copper sulphate, anhydrous, hydrates
	Butanedione		Coumachlor
	2-Butenal, stabilized	PP	Coumaphos
	Butyl benzenes		Cresosote (coal tar)
	Butyl benzyl phthalate		Cresosote (wood tar)
	m-Butyl butyrate		Cresols (o-, m-, p-)
	N-tert-butyl-N-cyclopropyl-6-methylthio-1,3,5-triazine-2,4-diamine	PP	Cresyl diphenyl phosphate
			Cresylic acid
			Cresylic acid sodium salt



International Maritime Dangerous Goods Code (IMDGC)



- Regulates International HAZMAT water shipments



UMODPC



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GENERAL INDEX

SUBSTANCE or ARTICLE	IMDG CODE PAGE	UN No.	CLASS	Pack- aging Group	Subsidiary Risk Label(s)	EmS No.	MFAG Table No.
ACETAL ^P - 100 -	310 ⁺ 317 ⁺	1082 1088	3.1 3.2	I I	- -	3-06 3-06	330 330
ACETALDEHYDE ^P	310 ⁺	1089	3.1	I	-	3-06	300
para-ACETALDEHYDE	see 3372	1264	3.3	II	-	3-06	300
ACETALDEHYDE AMMONIA	9021	1841	9	II	-	8-07	320
ACETALDEHYDE DIETHYL ACETAL ^P	see 3101	1088	3.1	I	-	3-06	330
- 370 -	see 3171	1088	3.2	I	-	3-06	330
meta-ACETALDEHYDE OXIME	3301	2332	3.3	III	-	3-06	320
ACETALDOL	see 8055	2839	6.1	II	-	6-102	300
meta-ACETALDOXIME	see 3301	2332	3.3	III	-	3-06	320
ACETIC ACID, GLACIAL	8100	2789	8	II	Flammable Liquid	8-01	700
ACETIC ACID SOLUTION, more than 80% acid by mass	8100	2789	8	II	Flammable Liquid	8-04	700
ACETIC ACID SOLUTION, more than 30% but not more than 80% acid by mass	8100	2792	8	I*	-	8-05	700
ACETIC ALDEHYDE ^P	see 3101	1089	3.1	I	-	3-06	300
ACETIC ANHYDRIDE	8101	1775	8	II	Flammable	8-04	700



CLASS 3.2 – Flammable liquids

Intermediate flashpoint group	UN No.	Formula	Explosive Limits	Flashpoint
BENZENE	1114	C_6H_6	1.4% to 8%	-11 °C c.c.
BENZOL	Properties Colourless liquid with a characteristic odour. Freezing point 5 °C, flashes below its freezing point. Immiscible with water.			
Packaging group: II	Observations Narcotic. Exposure to this substance may produce serious chronic effects of a toxic nature.			
Label of class 3	Packing See table 3.4 in the introduction to this class. For IBCs see section 26 of the General Introduction. For tanks see section 13 of the General Introduction.			
	Stowage Category B. Clear of living quarters.			
	Packing, Stowage & Segregation See also General Introduction and introduction to this class.			

CLASS 3 – Flammable liquids

3.4 Packaging specifications

Note: For viscous liquids in packaging group III see 3.3.4.

Inner receptacle(s)	Outer packaging	Maximum gross mass or maximum liquid contents			
		Packaging group	Low flashpoint	Intermediate flashpoint	High flashpoint
Carboy, glass, maximum contents 60 litres	Wooden box (4C), (4D), (4F)	I, II	prohibited	prohibited	75 kg
		III	not applicable	not applicable	75 kg
	Fibre drum (1G)	I, II	prohibited	prohibited	75 kg
		III	not applicable	not applicable	75 kg
Carboy, glass, maximum contents 25 litres	Moulded expanded plastic box (4H1)	I, II	40 kg	40 kg	40 kg
		III	not applicable	not applicable	55 kg
Receptacles, glass, maximum contents 10 litres	Wooden box (4C), (4D), (4F)	I, II	prohibited	125 kg	125 kg
		III	not applicable	not applicable	225 kg
	Solid plastics box (4H2)	I, II	prohibited	125 kg	125 kg
		III	not applicable	not applicable	225 kg
Receptacles, glass, maximum contents 5 litres	Wooden box (4C), (4D), (4F)	I, II	125 kg	125 kg	125 kg
		III	not applicable	not applicable	225 kg
	Fibreboard box (4G)	I, II	40 kg	40 kg*	40 kg*
		III	not applicable	not applicable	55 kg
	Moulded expanded plastic box (4H1)	I, II	40 kg	40 kg	40 kg
		III	not applicable	not applicable	55 kg
	Solid plastics box (4H2)	I, II	75 kg	125 kg	125 kg
		III	not applicable	not applicable	225 kg
Cans, metal, maximum contents 30 litres	Wooden box (4C), (4D), (4F)	I, II	125 kg	125 kg	125 kg
		III	not applicable	not applicable	225 kg
	Fibreboard box (4G)	I, II	40 kg	40 kg*	40 kg*
		III	not applicable	not applicable	55 kg



International Air Transport Association (IATA) – Dangerous Goods Regulations (DGR)



- Regulates dangerous goods shipments via commercial air





TM 38-250/ AFJMAN 24-204



- Regulates dangerous goods shipments via military air

- This is a joint service publication





TM 38-250 (Cont)



SYM- BOL (1)	PROPER SHIPPING NAME/DESCRIPTION (2)	HAZARD CLASS/DIV (3)	UNIT NUMBER (4)	PG (5)	SUBSIDIARY RISK (6)	SPECIAL PROVISION (7)	PACKAGING PARAGRAPH (8)
	<i>Accelerant; see p-</i>						
	NITROSODIMETHYLANILINE						
D	Accumulators, electric; see BATTERIES, WET, etc.	2.2	NA1956			P5	A6.9
	ACCUMULATORS, PRESSURIZED,						
	PNEUMATIC or HYDRAULIC (containing						
	nonflammable gas) see also ARTICLES,						
	PRESSURIZED, etc.						
	ACETAL	3	UN1068	II		P5	A7.3
	ACETALDEHYDE	3	UN1089	I		P3, A3	A7.3
	ACETALDEHYDE AMMONIA	9	UN1841	III		P5	A13.13
	ACETALDEHYDE OXIME	3	UN2332	III		P5	A7.3
	ACETIC ACID, GLACIAL or ACETIC	8	UN2789	II		P5, A3, A6,	A12.3
	ACID SOLUTION, with more than 80% acid, by mass					A7, A10	
	ACETIC ACID SOLUTION, with more than	8	UN2790	II		P5, A3, A6,	A12.3
	10%, but not more than 80% acid, by mass					A7, A10	
	ACETIC ANHYDRIDE	8	UN1715	II	3	P5, A3, A6,	A12.3
						A7, A10	
	<i>Acetic oxide; see ACETIC ANHYDRIDE</i>						
	<i>Acetoin; see ACETYL METHYL CARBINOL</i>						
	ACETONE	3	UN1090	II		P5	A7.3
	ACETONE CYANOHYDRIN, STABILIZED	6.1	UN1541	I		P2, 3, A3, N34	A10.7



Multiple Regulations



- Each of these covers a different Transportation Mode. Be sure to use all that apply.

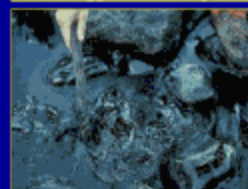




2000 Emergency Response Guidebook (ERG2000)



- A guidebook for first responders during the initial phase of a hazardous materials / dangerous goods incident





ERG2000 -- Yellow



- Yellow section: Index list of dangerous goods in numerical ID number order

ID No.	Guide No.	Name of Material
1090	127	Acetone



ERG2000 -- Blue



- Blue section: Index list of dangerous goods in alphabetical order of substance name

Name of Material	Guide No.	ID No.
Sulfuric acid	137	1830



ERG2000 -- Orange



- Orange section: Safety recommendations & emergency response information for dangerous substances identified by guide number including:
 - Potential Hazards: lists any fire, explosion & health effects of substances that must be handled immediately



ERG2000 – Orange (Cont)



- Orange section (Cont):
 - Public Safety: tells response team the immediate isolation distances, protective clothing recommendations & suggested evacuation distances
 - Emergency Response: Provides guidance & activities for fire, spill or leak incidents & first aid procedures



ERG2000 -- Green



- **Green** section: Index list by numerical ID number of only those substances which are poisonous by inhalation
 - Includes initial isolation & protective action distances
- Remember: This publication should not be used to determine proper compliance



Unit HAZMAT Responsibilities



Unit Responsibilities



- Purpose is to provide guidance and send "Flags" to UMO's that certain equipment & materials may be defined as hazardous material.
- Some Items that are commonly shipped by deploying units: Oxygen & Acetylene cylinders; other compressed gases; various batteries & battery acids; mogas, diesel fuel & other POL products; antifreeze; fire extinguishers; mineral spirits, paint & paint thinner.



Unit Responsibilities (Cont)



- Appendix D, FM 55-65 gives direction on tasks that need to be accomplished to comply with HAZMAT regulations
 - ① Determine Proper Shipping Name
 - ② Determine the Hazard Class(s)
 - ③ Determine the mode(s) of transportation
 - ④ Make sure proper labeling is applied



Unit Responsibilities (Cont)



- ⑤ Make sure you select proper packaging
- ⑥ Ensure packaging is properly marked
- ⑦ Prepare packing/load lists as required
- ⑧ Determine the proper placarding of vehicles
- ⑨ Determine the segregation requirements
- ⑩ Ensure water commodity/special handling codes are entered into AUCL



Shipper's Dangerous Goods Checklist



SHIPPERS DANGEROUS GOODS CHECKLIST FOR NON-RADIOACTIVE BIOLOGICAL SHIPMENTS.

SHIPPERS DECLARATION FOR DANGEROUS GOODS (DGD).

IS THE FOLLOWING INFORMATION AS PRESENTED ON
A SHIPPERS DECLARATION OF DANGEROUS GOODS FORM
AND/OR WAYBILL CORRECT AND COMPLETE?

CHECK ALL APPROPRIATE BOXES.

YES

Two copies in English
and in the IATA format. ☐
Full name and address
of Shipper ☐
Full name and address
of Consignee. ☐

Quantity and Type of Packing.

YES N/A

Number and type of
Packages. ☐
Quantity and unit of
measure per package. ☐ ☐
Packing instruction
number. ☐

<p>Pages numbered and totaled. <input type="checkbox"/></p> <p>Name of City Airports of departure and destination (may be entered by courier). <input type="checkbox"/></p> <p>Delete the word Radioactive and either 'Passenger and Cargo' or 'Cargo Aircraft only'. <input type="checkbox"/></p> <p>Proper shipping Name. <input type="checkbox"/></p> <p>(Class 6.2 proper shipping name is INFECTIOUS SUBSTANCE AFFECTING HUMANS). (technical name, Physical state and Risk group may be required).</p> <p>Class or division. <input type="checkbox"/></p> <p>UN or ID number preceded by prefix. <input type="checkbox"/></p> <p>Packing Group. <input type="checkbox"/></p> <p>Subsidiary Risk. E.G. Dry Ice <input type="checkbox"/></p>	<p>Prior arrangement statement for Infectious Substances. <input type="checkbox"/> <input type="checkbox"/></p> <p>Name and Title of signatory. Place and Date indicated. <input type="checkbox"/></p> <p>Signature of Shipper. <input type="checkbox"/></p> <p>Amendment or alteration signed by Shipper. <input type="checkbox"/> <input type="checkbox"/></p> <p>On the Air Waybill.</p> <p>The Handling Information box shows:</p> <p>"Dangerous goods as per attached Shippers Declaration". <input type="checkbox"/> <input type="checkbox"/></p> <p>Cargo Aircraft Only, if applicable. <input type="checkbox"/> <input type="checkbox"/></p> <p>Packing conforms with packing instructions and is undamaged. <input type="checkbox"/></p>
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Shipment Papers



- 49 CFR requires every shipment of HAZMAT be accompanied by shipping papers & a shipper's certification
 - Must be legible
 - Printed mechanically or manually
 - Printed in English
- The description must include:
 - Proper shipping name entered first or in contrasting color





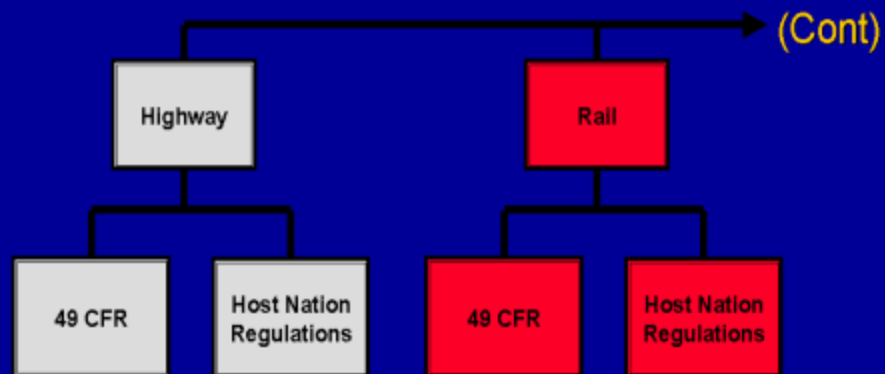
Shipment Papers (Cont)



- The description must include (Cont):
 - Hazardous class or division
 - Identification Number
 - Packing Group in Roman numerals
 - Total quantity
 - Emergency response telephone number
- In that order

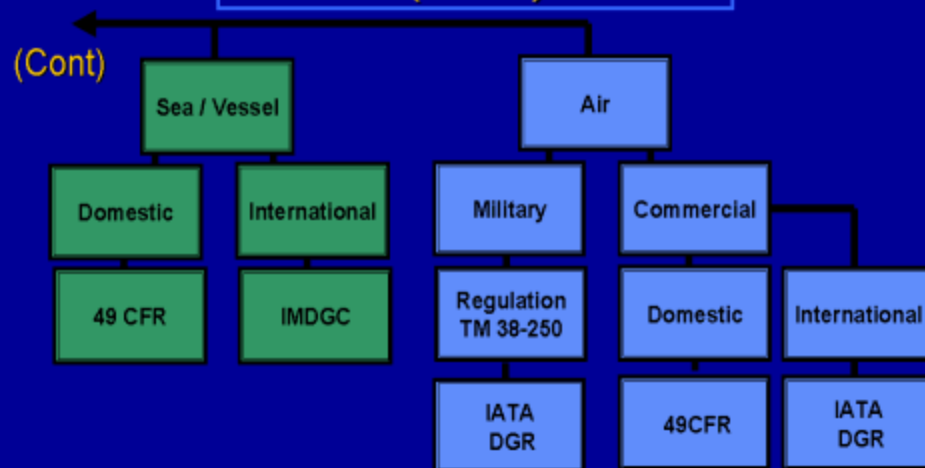


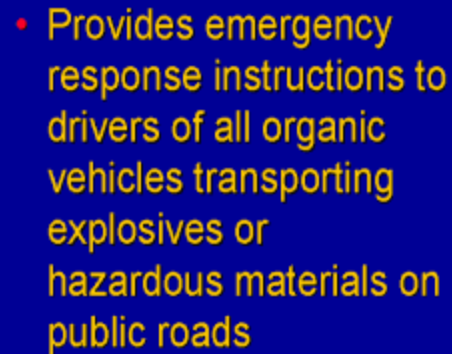
HAZMAT Regulations by Mode





HAZMAT Regulations by Mode (Cont)



[illegible]

HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT

1. a. NOMENCLATURE: b. MODEL NO.		c. CONTAINER SERIAL NO.: 4. SERIAL NO.		e. TCR NUMBER: f. BUMPER NO.	
DANGEROUS GOODS SHIPPING PAPER/DECLARATION AND EMERGENCY RESPONSE INFORMATION FOR HAZARDOUS MATERIALS TRANSPORTED BY GOVERNMENT VEHICLES/CONTAINERS OR VESSEL					
2. SHIPPER ADDRESS/TELEPHONE NO.		3. LOCATION AND DATE SHIPMENT PREPARED Pl. Evstiq VA DD/MM/YY		4. DATE OF TRAVEL DD/MM/YY	
				5. PAGE 1 OF 1 PAGES	
6. CARGO (To be completed by the unit or shipper Transportation Office (T.O.))					
PROPER SHIPPING NAME (Include I.D. Technical Names. Additional Information per 49 CFR 172.203, as required.) a.		HAZARD CLASS / DIVISION b.	UNIT NUMBER c.	PACKING GROUP d.	PACKAGES NUMBER e.
					NET TOTAL QUANTITY & GROSS WT. Pkgs. f.
					TOTAL AMT (GROSS) g.
Cartridges for Weapons		1.2E	UN0321	0	4 BX
RQ, Hexachlorocyclopentadiene, Toxic Inhalation Hazard Zone B		6.1	UN2646	1	3 DR
					15kg
(For personnel complete Items 7 and 8.)					
7. PORT OF EMBARKATION (OCONUS only)		8 a. SHIP NAME (OCONUS only)		b. VOYAGE NUMBER	
9. CONSIGNEE					
10. REMARKS					
11 a. COPY OF EMERGENCY GUIDE NUMBER(S) ATTACHED (See back of this form.)					
b. EMERGENCY NOTIFICATION. In all cases of accident, breakdown or fire, prompt notification must be given to shipper as noted in Item 2.					
c. 24 HOUR EMERGENCY ASSISTANCE TELEPHONE NUMBER:					

DD Form 836

EMERGENCY RESPONSE INFORMATION

Guide Numbers 112 and 114 from the U.S. Department of Transportation North American Emergency Response Guide Book (ERG) are reproduced hereon. These guides are applicable to known Class 1 materials (Explosives). Mark an X in the appropriate box.

☒ USE OTHER: 112 FOUR EXPLOSTIVES
(1 1), (1 2), (1 3), (1 4) OR (1 4) (Class A or B)

(1.4) Class C:

For all other hazardous materials or substances, create appropriate emergency response Guide Book Guide Number in the block 11 a, and attach a copy of the guide number page or pages.

GUIDE 112

POTENTIAL HAZARDS

FINE ORN & FLOWERS

MAY EXPLODE AND THROW FRAGMENTS 1400 METERS
(1/2 MILE) OR MORE IF FIRE REACHES CARGO.

(1 MILE) OR MORE IF FREE REACHES 5 CARGO.

HEALTHY LIFESTYLES

Fast-tray pet-drobe laundrying, conservative and fun t-shirt gives.

PUBLIC SAFETY:

CALL CHESTREC AT 1-800-24-9300.

- Directly spill or leak and immediately for at least 300 cubic (300 m³) in all directions. Move people out of line along it of the scene and away from windows.
- Keep cars parked personal away and stay upwind.
- Ventilate closed spaces before entering.

PROJECTISE CLOTHING

- When positive post-test will minimize something, approach (CTD).
 • Secondary (negative) post-test (nothing will only get 40% direct reduction).

EVAQUATION

LARGE SPILL.

Consider initial emanation for 500 (see see [162] table) in all directions.

PLATE 1

- It will not contain or involve any fire and heavily armed explosives such as bombs or military properties as reported, IS OR, ATE for 1000 meters (1 mile) in all directions; also justice otherwise including emergency measures for 1000 meters.

GUIDE 114

POTENTIAL PITFALLS

FINE CREEK EXPLORATION

MAY EXPLODE AND THROW FRAGMENTS 400 meters (1.3 miles) OR MORE IF FIRE REACHES CARGO.

MORE OF FIRE BRANCH & CARGO

HEALTH HAZARDS:

Fox may produce imitations, caricatures and/or false goods

PUBLIC SAFETY:

CALL TOLLFREE 800-368-7263. MON-FRI 9-5 EST. FAX 800-368-7263.

If Singlepage Papers are available, do not allow. CALL CENTER C-10

1-800-64-7300

- Isolate leak or spill area immediately for at least 100 meters (300 feet) in all

Directions: Move people out of line of sight of the scene and away from windows.

- Heavy mechanical processing may not always be needed

-No @Data, closed spaces before encoding

PROFICIENT CLINIC

- When positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL.

Consider initial reservation for 200 swimmers (1000 Gals) in all directions.

PURSE

- ^a If a car or truck is involved in a fire, DO NOTS for 500 meters (1/2 mile) in all directions; also, initiate evacuation of building occupants as required. For 500 meters (1/2 mile) in all directions.

CARGO FIRE - DO NOT FIGHT FIRE WHEN IT REACHES CARGO

CARGO MAY EXPLODE

-Stop all traffic and use the area for at least 300 yards (1/3 mile) in all directions

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Guide Numbers 112 and 114 from the U.S. Department of Transportation North American Emergency Response Guide Book (ERG) are reproduced hereon. These guides are applicable to known Class 1 materials (Explosives). Mark an X in the appropriate box.

☒ USE OTHER: 112 FOUR EXPLOSIONS
(1 1), (1 2), (1 3), (1 4) OR (1 4) (1 5) & so on

(1.4) Class C:

For all other hazardous materials or substances, illustrate appropriate emergency Response Guide, Book Guide Number in the block II a, and attach a copy of the guide number page or pages.

GUIDE 112

POTENTIAL HAZARDS

FIGURE 1. CRK 2A FLUORESCENCE

MAY EXPLODE AND THROW FRAGMENTS 1400 METERS (3 MILE) OR MORE IF FIRE REACHES CARGO.

(3 MILE) OR MORE IF FREE REACHES 5 CARGO

HEALTH CARE

For many pet-food manufacturers, corn is the main ingredient.

PUBLIC SAFETY:

CALL CHESTREC AT 1-800-24-9300.

- Directly spill or leak and immediately for at least 300 m (100 yds) in all directions. Move people out of line along all of the scene and away from windows.
- Keep cars parked personal away and stay upwind.
- Ventilate closed spaces before entering.

PROJECTISE CLOTHING

- "When positive pressure will eliminate something, apparatus (SCTIR) Society and firefighters" positive clothing will only provide limited protection.

EVAQUATION

LARGE SPILL.

Consider initial emanation for SWI sea-ice (112 cells) in all directions.

PLATE 1

- If all four criteria are involved simultaneously, and heavily stressed exposures such as burns or artillery properties are suspected, ISOLATE for 100 meters (1 mile) in all directions; also initiate evacuation including emergency respiration for 100 meters.

GUIDE 114

POTENTIAL PITFALLS

PIPE OR EXPLOSION:

MAY EXPLODE AND THROW FRAGMENT 5 500 meters (1.0 MILE) OR MORE IF FIRE REACHES CARCASS

MORE OF FIRE BEACH & CARDO

HEALTH HAZARDS:

Task 19: give possible situations, reasons and/or values given.

PUBLIC SAFETY

CALL TOLLFREE 800-855-7666. Telephone Numbers on 5 line are paper fax

If Shipping Paper not available on an Alumar, CALL CHEMTRONIC AT 1-800-64-9388.

Isolate high or spill area immediately for at least 100 meters (300 feet) in all directions. Move people out of line of sight of the scene and away from windows.

- Have unclassified personnel wear and use special

•No+Klate; closed spaces before entering

PROFICIENT CLOTHING.

- When positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL

Coastline initial orientation for 200 meters (200 Gm) in all directions.

PURSE

- ^a If a car or truck is involved in a fire, BOLLARDS for 500 vehicles (40 miles) in all directions; also, initial evacuation of building occupants required. For 200 vehicles (10 miles) in all directions.

**CARGO FIRE - DO NOT FIGHT FIRE WHEN IT REACHES CARGO
CARGO MAY EXPLODE!**

- Stop all traffic and use the area for at least 300 yards (1/3 mile) in all directions

DD Form 836



DD Form 626



- Used for inspecting both commercial & government vehicles that move placardable quantities of hazardous material on public roads (FR 55-1)

UNITED STATES DEPARTMENT OF DEFENSE			
DD FORM 626, 1 SEP 70 (REV 10-79)			
This form requires an authorized vehicle placard to be displayed. (See instructions on back of this form for details.)			
1. NAME OF VEHICLE		2. TYPE OF VEHICLE	
3. NAME OF DRIVER		4. NAME OF COMPANY	
5. ADDRESS OF DRIVER		6. ADDRESS OF COMPANY	
7. PHONE NO. (Area)		8. PHONE NO. (Area)	
9. CITY AND STATE		10. CITY AND STATE	
11. ZIP CODE		12. ZIP CODE	
13. DATE OF INSPECTION		14. NAME OF INSPECTOR	
15. NAME OF VEHICLE		16. NAME OF COMPANY	
17. ADDRESS OF DRIVER		18. ADDRESS OF COMPANY	
19. PHONE NO. (Area)		20. PHONE NO. (Area)	
21. CITY AND STATE		22. CITY AND STATE	
23. ZIP CODE		24. ZIP CODE	
25. DATE OF INSPECTION		26. NAME OF INSPECTOR	
27. NAME OF VEHICLE		28. NAME OF COMPANY	
29. ADDRESS OF DRIVER		30. ADDRESS OF COMPANY	
31. PHONE NO. (Area)		32. PHONE NO. (Area)	
33. CITY AND STATE		34. CITY AND STATE	
35. ZIP CODE		36. ZIP CODE	
37. DATE OF INSPECTION		38. NAME OF INSPECTOR	
39. NAME OF VEHICLE		40. NAME OF COMPANY	
41. ADDRESS OF DRIVER		42. ADDRESS OF COMPANY	
43. PHONE NO. (Area)		44. PHONE NO. (Area)	
45. CITY AND STATE		46. CITY AND STATE	
47. ZIP CODE		48. ZIP CODE	
49. DATE OF INSPECTION		50. NAME OF INSPECTOR	
51. NAME OF VEHICLE		52. NAME OF COMPANY	
53. ADDRESS OF DRIVER		54. ADDRESS OF COMPANY	
55. PHONE NO. (Area)		56. PHONE NO. (Area)	
57. CITY AND STATE		58. CITY AND STATE	
59. ZIP CODE		60. ZIP CODE	
61. DATE OF INSPECTION		62. NAME OF INSPECTOR	
63. NAME OF VEHICLE		64. NAME OF COMPANY	
65. ADDRESS OF DRIVER		66. ADDRESS OF COMPANY	
67. PHONE NO. (Area)		68. PHONE NO. (Area)	
69. CITY AND STATE		70. CITY AND STATE	
71. ZIP CODE		72. ZIP CODE	
73. DATE OF INSPECTION		74. NAME OF INSPECTOR	
75. NAME OF VEHICLE		76. NAME OF COMPANY	
77. ADDRESS OF DRIVER		78. ADDRESS OF COMPANY	
79. PHONE NO. (Area)		80. PHONE NO. (Area)	
81. CITY AND STATE		82. CITY AND STATE	
83. ZIP CODE		84. ZIP CODE	
85. DATE OF INSPECTION		86. NAME OF INSPECTOR	
87. NAME OF VEHICLE		88. NAME OF COMPANY	
89. ADDRESS OF DRIVER		90. ADDRESS OF COMPANY	
91. PHONE NO. (Area)		92. PHONE NO. (Area)	
93. CITY AND STATE		94. CITY AND STATE	
95. ZIP CODE		96. ZIP CODE	
97. DATE OF INSPECTION		98. NAME OF INSPECTOR	
99. NAME OF VEHICLE		100. NAME OF COMPANY	
101. ADDRESS OF DRIVER		102. ADDRESS OF COMPANY	
103. PHONE NO. (Area)		104. PHONE NO. (Area)	
105. CITY AND STATE		106. CITY AND STATE	
107. ZIP CODE		108. ZIP CODE	
109. DATE OF INSPECTION		110. NAME OF INSPECTOR	
111. NAME OF VEHICLE		112. NAME OF COMPANY	
113. ADDRESS OF DRIVER		114. ADDRESS OF COMPANY	
115. PHONE NO. (Area)		116. PHONE NO. (Area)	
117. CITY AND STATE		118. CITY AND STATE	
119. ZIP CODE		120. ZIP CODE	
121. DATE OF INSPECTION		122. NAME OF INSPECTOR	
123. NAME OF VEHICLE		124. NAME OF COMPANY	
125. ADDRESS OF DRIVER		126. ADDRESS OF COMPANY	
127. PHONE NO. (Area)		128. PHONE NO. (Area)	
129. CITY AND STATE		130. CITY AND STATE	
131. ZIP CODE		132. ZIP CODE	
133. DATE OF INSPECTION		134. NAME OF INSPECTOR	
135. NAME OF VEHICLE		136. NAME OF COMPANY	
137. ADDRESS OF DRIVER		138. ADDRESS OF COMPANY	
139. PHONE NO. (Area)		140. PHONE NO. (Area)	
141. CITY AND STATE		142. CITY AND STATE	
143. ZIP CODE		144. ZIP CODE	
145. DATE OF INSPECTION		146. NAME OF INSPECTOR	
147. NAME OF VEHICLE		148. NAME OF COMPANY	
149. ADDRESS OF DRIVER		150. ADDRESS OF COMPANY	
151. PHONE NO. (Area)		152. PHONE NO. (Area)	
153. CITY AND STATE		154. CITY AND STATE	
155. ZIP CODE		156. ZIP CODE	
157. DATE OF INSPECTION		158. NAME OF INSPECTOR	
159. NAME OF VEHICLE		160. NAME OF COMPANY	
161. ADDRESS OF DRIVER		162. ADDRESS OF COMPANY	
163. PHONE NO. (Area)		164. PHONE NO. (Area)	
165. CITY AND STATE		166. CITY AND STATE	
167. ZIP CODE		168. ZIP CODE	
169. DATE OF INSPECTION		170. NAME OF INSPECTOR	
171. NAME OF VEHICLE		172. NAME OF COMPANY	
173. ADDRESS OF DRIVER		174. ADDRESS OF COMPANY	
175. PHONE NO. (Area)		176. PHONE NO. (Area)	
177. CITY AND STATE		178. CITY AND STATE	
179. ZIP CODE		180. ZIP CODE	
181. DATE OF INSPECTION		182. NAME OF INSPECTOR	
183. NAME OF VEHICLE		184. NAME OF COMPANY	
185. ADDRESS OF DRIVER		186. ADDRESS OF COMPANY	
187. PHONE NO. (Area)		188. PHONE NO. (Area)	
189. CITY AND STATE		190. CITY AND STATE	
191. ZIP CODE		192. ZIP CODE	
193. DATE OF INSPECTION		194. NAME OF INSPECTOR	
195. NAME OF VEHICLE		196. NAME OF COMPANY	
197. ADDRESS OF DRIVER		198. ADDRESS OF COMPANY	
199. PHONE NO. (Area)		200. PHONE NO. (Area)	
201. CITY AND STATE		202. CITY AND STATE	
203. ZIP CODE		204. ZIP CODE	
205. DATE OF INSPECTION		206. NAME OF INSPECTOR	
207. NAME OF VEHICLE		208. NAME OF COMPANY	
209. ADDRESS OF DRIVER		210. ADDRESS OF COMPANY	
211. PHONE NO. (Area)		212. PHONE NO. (Area)	
213. CITY AND STATE		214. CITY AND STATE	
215. ZIP CODE		216. ZIP CODE	
217. DATE OF INSPECTION		218. NAME OF INSPECTOR	
219. NAME OF VEHICLE		220. NAME OF COMPANY	
221. ADDRESS OF DRIVER		222. ADDRESS OF COMPANY	
223. PHONE NO. (Area)		224. PHONE NO. (Area)	
225. CITY AND STATE		226. CITY AND STATE	
227. ZIP CODE		228. ZIP CODE	
229. DATE OF INSPECTION		230. NAME OF INSPECTOR	
231. NAME OF VEHICLE		232. NAME OF COMPANY	
233. ADDRESS OF DRIVER		234. ADDRESS OF COMPANY	
235. PHONE NO. (Area)		236. PHONE NO. (Area)	
237. CITY AND STATE		238. CITY AND STATE	
239. ZIP CODE		240. ZIP CODE	
241. DATE OF INSPECTION		242. NAME OF INSPECTOR	
243. NAME OF VEHICLE		244. NAME OF COMPANY	
245. ADDRESS OF DRIVER		246. ADDRESS OF COMPANY	
247. PHONE NO. (Area)		248. PHONE NO. (Area)	
249. CITY AND STATE		250. CITY AND STATE	
251. ZIP CODE		252. ZIP CODE	
253. DATE OF INSPECTION		254. NAME OF INSPECTOR	
255. NAME OF VEHICLE		256. NAME OF COMPANY	
257. ADDRESS OF DRIVER		258. ADDRESS OF COMPANY	
259. PHONE NO. (Area)		260. PHONE NO. (Area)	
261. CITY AND STATE		262. CITY AND STATE	
263. ZIP CODE		264. ZIP CODE	
265. DATE OF INSPECTION		266. NAME OF INSPECTOR	
267. NAME OF VEHICLE		268. NAME OF COMPANY	
269. ADDRESS OF DRIVER		270. ADDRESS OF COMPANY	
271. PHONE NO. (Area)		272. PHONE NO. (Area)	
273. CITY AND STATE		274. CITY AND STATE	
275. ZIP CODE		276. ZIP CODE	
277. DATE OF INSPECTION		278. NAME OF INSPECTOR	
279. NAME OF VEHICLE		280. NAME OF COMPANY	
281. ADDRESS OF DRIVER		282. ADDRESS OF COMPANY	
283. PHONE NO. (Area)		284. PHONE NO. (Area)	
285. CITY AND STATE		286. CITY AND STATE	
287. ZIP CODE		288. ZIP CODE	
289. DATE OF INSPECTION		290. NAME OF INSPECTOR	
291. NAME OF VEHICLE		292. NAME OF COMPANY	
293. ADDRESS OF DRIVER		294. ADDRESS OF COMPANY	
295. PHONE NO. (Area)		296. PHONE NO. (Area)	
297. CITY AND STATE		298. CITY AND STATE	
299. ZIP CODE		300. ZIP CODE	
301. DATE OF INSPECTION		302. NAME OF INSPECTOR	
303. NAME OF VEHICLE		304. NAME OF COMPANY	
305. ADDRESS OF DRIVER		306. ADDRESS OF COMPANY	
307. PHONE NO. (Area)		308. PHONE NO. (Area)	
309. CITY AND STATE		310. CITY AND STATE	
311. ZIP CODE		312. ZIP CODE	
313. DATE OF INSPECTION		314. NAME OF INSPECTOR	
315. NAME OF VEHICLE		316. NAME OF COMPANY	
317. ADDRESS OF DRIVER		318. ADDRESS OF COMPANY	
319. PHONE NO. (Area)		320. PHONE NO. (Area)	
321. CITY AND STATE		322. CITY AND STATE	
323. ZIP CODE		324. ZIP CODE	
325. DATE OF INSPECTION		326. NAME OF INSPECTOR	
327. NAME OF VEHICLE		328. NAME OF COMPANY	
329. ADDRESS OF DRIVER		330. ADDRESS OF COMPANY	
331. PHONE NO. (Area)		332. PHONE NO. (Area)	
333. CITY AND STATE		334. CITY AND STATE	
335. ZIP CODE		336. ZIP CODE	
337. DATE OF INSPECTION		338. NAME OF INSPECTOR	
339. NAME OF VEHICLE		340. NAME OF COMPANY	
341. ADDRESS OF DRIVER		342. ADDRESS OF COMPANY	
343. PHONE NO. (Area)		344. PHONE NO. (Area)	
345. CITY AND STATE		346. CITY AND STATE	
347. ZIP CODE		348. ZIP CODE	
349. DATE OF INSPECTION		350. NAME OF INSPECTOR	
351. NAME OF VEHICLE		352. NAME OF COMPANY	
353. ADDRESS OF DRIVER		354. ADDRESS OF COMPANY	
355. PHONE NO. (Area)		356. PHONE NO. (Area)	
357. CITY AND STATE		358. CITY AND STATE	
359. ZIP CODE		360. ZIP CODE	
361. DATE OF INSPECTION		362. NAME OF INSPECTOR	
363. NAME OF VEHICLE		364. NAME OF COMPANY	
365. ADDRESS OF DRIVER		366. ADDRESS OF COMPANY	
367. PHONE NO. (Area)		368. PHONE NO. (Area)	
369. CITY AND STATE		370. CITY AND STATE	
371. ZIP CODE		372. ZIP CODE	
373. DATE OF INSPECTION		374. NAME OF INSPECTOR	
375. NAME OF VEHICLE		376. NAME OF COMPANY	
377. ADDRESS OF DRIVER		378. ADDRESS OF COMPANY	
379. PHONE NO. (Area)		380. PHONE NO. (Area)	
381. CITY AND STATE		382. CITY AND STATE	
383. ZIP CODE		384. ZIP CODE	
385. DATE OF INSPECTION		386. NAME OF INSPECTOR	
387. NAME OF VEHICLE		388. NAME OF COMPANY	
389. ADDRESS OF DRIVER		390. ADDRESS OF COMPANY	
391. PHONE NO. (Area)		392. PHONE NO. (Area)	
393. CITY AND STATE		394. CITY AND STATE	
395. ZIP CODE		396. ZIP CODE	
397. DATE OF INSPECTION		398. NAME OF INSPECTOR	
399. NAME OF VEHICLE		400. NAME OF COMPANY	
401. ADDRESS OF DRIVER		402. ADDRESS OF COMPANY	
403. PHONE NO. (Area)		404. PHONE NO. (Area)	
405. CITY AND STATE		406. CITY AND STATE	
407. ZIP CODE		408. ZIP CODE	
409. DATE OF INSPECTION		410. NAME OF INSPECTOR	
411. NAME OF VEHICLE		412. NAME OF COMPANY	
413. ADDRESS OF DRIVER		414. ADDRESS OF COMPANY	
415. PHONE NO. (Area)		416. PHONE NO. (Area)	
417. CITY AND STATE		418. CITY AND STATE	
419. ZIP CODE		420. ZIP CODE	
421. DATE OF INSPECTION		422. NAME OF INSPECTOR	
423. NAME OF VEHICLE		424. NAME OF COMPANY	
425. ADDRESS OF DRIVER		426. ADDRESS OF COMPANY	
427. PHONE NO. (Area)		428. PHONE NO. (Area)	
429. CITY AND STATE		430. CITY AND STATE	
431. ZIP CODE		432. ZIP CODE	
433. DATE OF INSPECTION		434. NAME OF INSPECTOR	
435. NAME OF VEHICLE		436. NAME OF COMPANY	
437. ADDRESS OF DRIVER		438. ADDRESS OF COMPANY	
439. PHONE NO. (Area)		440. PHONE NO. (Area)	
441. CITY AND STATE		442. CITY AND STATE	
443. ZIP CODE		444. ZIP CODE	
445. DATE OF INSPECTION		446. NAME OF INSPECTOR	
447. NAME OF VEHICLE		448. NAME OF COMPANY	
449. ADDRESS OF DRIVER		450. ADDRESS OF COMPANY	
451. PHONE NO. (Area)		452. PHONE NO. (Area)	
453. CITY AND STATE		454. CITY AND STATE	
455. ZIP CODE		456. ZIP CODE	
457. DATE OF INSPECTION		458. NAME OF INSPECTOR	
459. NAME OF VEHICLE		460. NAME OF COMPANY	
461. ADDRESS OF DRIVER		462. ADDRESS OF COMPANY	
463. PHONE NO. (Area)		464. PHONE NO. (Area)	
465. CITY AND STATE		466. CITY AND STATE	
467. ZIP CODE		468. ZIP CODE	
469. DATE OF INSPECTION		470. NAME OF INSPECTOR	
471. NAME OF VEHICLE		472. NAME OF COMPANY	
473. ADDRESS OF DRIVER		474. ADDRESS OF COMPANY	
475. PHONE NO. (Area)		476. PHONE NO. (Area)	
477. CITY AND STATE		478. CITY AND STATE	
479. ZIP CODE		480. ZIP CODE	
481. DATE OF INSPECTION		482. NAME OF INSPECTOR	
483. NAME OF VEHICLE		484. NAME OF COMPANY	
485. ADDRESS OF DRIVER		486. ADDRESS OF COMPANY	
487. PHONE NO. (Area)		488. PHONE NO. (Area)	
489. CITY AND STATE		490. CITY AND STATE	
491. ZIP CODE		492. ZIP CODE	
493. DATE OF INSPECTION		494. NAME OF INSPECTOR	
495. NAME OF VEHICLE		496. NAME OF COMPANY	
497. ADDRESS OF DRIVER		498. ADDRESS OF COMPANY	
499. PHONE NO. (Area)		500. PHONE NO. (Area)	
501. CITY AND STATE		502. CITY AND STATE	
503. ZIP CODE		504. ZIP CODE	
505. DATE OF INSPECTION		506. NAME OF INSPECTOR	
507. NAME OF VEHICLE		508. NAME OF COMPANY	
509. ADDRESS OF DRIVER		510. ADDRESS OF COMPANY	
511. PHONE NO. (Area)		512. PHONE NO. (Area)	
513. CITY AND STATE		514. CITY AND STATE	
515. ZIP CODE		516. ZIP CODE	
517. DATE OF INSPECTION		518. NAME OF INSPECTOR	
519. NAME OF VEHICLE		520. NAME OF COMPANY	
521. ADDRESS OF DRIVER		522. ADDRESS OF COMPANY	
523. PHONE NO. (Area)		524. PHONE NO. (Area)	
525. CITY AND STATE		526. CITY AND STATE	
527. ZIP CODE		528. ZIP CODE	
529. DATE OF INSPECTION		530. NAME OF INSPECTOR	
531. NAME OF VEHICLE		532. NAME OF COMPANY	
533. ADDRESS OF DRIVER		534. ADDRESS OF COMPANY	
535. PHONE NO. (Area)		536. PHONE NO. (Area)	
537. CITY AND STATE		538. CITY AND STATE	
539. ZIP CODE		540. ZIP CODE	
541. DATE OF INSPECTION		542. NAME OF INSPECTOR	
543. NAME OF VEHICLE		544. NAME OF COMPANY	
545. ADDRESS OF DRIVER		546. ADDRESS OF COMPANY	
547. PHONE NO. (Area)		548. PHONE NO. (Area)	
549. CITY AND STATE		550. CITY AND STATE	
551. ZIP CODE		552. ZIP CODE	
553. DATE OF INSPECTION		554. NAME OF INSPECTOR	
555. NAME OF VEHICLE		556. NAME OF COMPANY	
557. ADDRESS OF DRIVER		558. ADDRESS OF COMPANY	
559. PHONE NO. (Area)		560. PHONE NO. (Area)	
561. CITY AND STATE		562. CITY AND STATE	
563. ZIP CODE		564. ZIP CODE	
565. DATE OF INSPECTION		566. NAME OF INSPECTOR	
567. NAME OF VEHICLE		568. NAME OF COMPANY	
569. ADDRESS OF DRIVER		570. ADDRESS OF COMPANY	
571. PHONE NO. (Area)		572. PHONE NO. (Area)	
573. CITY AND STATE		574. CITY AND STATE	
575. ZIP CODE		576. ZIP CODE	
577. DATE OF INSPECTION		578. NAME OF INSPECTOR	
579. NAME OF VEHICLE		580. NAME OF COMPANY	
581. ADDRESS OF DRIVER		582. ADDRESS OF COMPANY	
583. PHONE NO. (Area)		584. PHONE NO. (Area)	
585. CITY AND STATE		586. CITY AND STATE	
587. ZIP CODE		588. ZIP CODE	
589. DATE OF INSPECTION		590. NAME OF INSPECTOR	
591. NAME OF VEHICLE		592. NAME OF COMPANY	
593. ADDRESS OF DRIVER		594. ADDRESS OF COMPANY	
595. PHONE NO. (Area)		596. PHONE NO. (Area)	
597. CITY AND STATE		598. CITY AND STATE	
599. ZIP CODE		600. ZIP CODE	
601. DATE OF INSPECTION		602. NAME OF INSPECTOR	
603. NAME OF VEHICLE		604. NAME OF COMPANY	
605. ADDRESS OF DRIVER		606. ADDRESS OF COMPANY	
607. PHONE NO. (Area)		608. PHONE NO. (Area)	
609. CITY AND STATE		610. CITY AND STATE	
611. ZIP CODE		612. ZIP CODE	
613. DATE OF INSPECTION		614. NAME OF INSPECTOR	
615. NAME OF VEHICLE		616. NAME OF COMPANY	
617. ADDRESS OF DRIVER		618. ADDRESS OF COMPANY	
619. PHONE NO. (Area)		620. PHONE NO. (Area)	
621. CITY AND STATE		622. CITY AND STATE	
623. ZIP CODE		624. ZIP CODE	
625. DATE OF INSPECTION		626. NAME OF INSPECTOR	
627. NAME OF VEHICLE		628. NAME OF COMPANY	
629. ADDRESS OF DRIVER		630. ADDRESS OF COMPANY	
631. PHONE NO. (Area)		632. PHONE NO. (Area)	
633. CITY AND STATE		634. CITY AND STATE	
635. ZIP CODE		636. ZIP CODE	
637. DATE OF INSPECTION		638. NAME OF INSPECTOR	
639. NAME OF VEHICLE		640. NAME OF COMPANY	
641. ADDRESS OF DRIVER		642. ADDRESS OF COMPANY	
643. PHONE NO. (Area)		644. PHONE NO. (Area)	
645. CITY AND STATE		646. CITY AND STATE	
647. ZIP CODE		648. ZIP CODE	
649. DATE OF INSPECTION		650. NAME OF INSPECTOR	
651. NAME OF VEHICLE		652. NAME OF COMPANY	
653. ADDRESS OF DRIVER		654. ADDRESS OF COMPANY	
655. PHONE NO. (Area)		656. PHONE NO. (Area)	
657. CITY AND STATE		658. CITY AND STATE	
659. ZIP CODE		660. ZIP CODE	
661. DATE OF INSPECTION		662. NAME OF INSPECTOR	
663. NAME OF VEHICLE		664. NAME OF COMPANY	
665. ADDRESS OF DRIVER		666. ADDRESS OF COMPANY	
667. PHONE NO. (Area)		668. PHONE NO. (Area)	
669. CITY AND STATE		670. CITY AND STATE	
671. ZIP CODE		672. ZIP CODE	
673. DATE OF INSPECTION		674. NAME OF INSPECTOR	
675. NAME OF VEHICLE		676. NAME OF COMPANY	
677. ADDRESS OF DRIVER		678. ADDRESS OF COMPANY	
679. PHONE NO. (Area)		680. PHONE NO. (Area)	
681. CITY AND STATE		682. CITY AND STATE	
683. ZIP CODE		684. ZIP CODE	
685. DATE OF INSPECTION		686. NAME OF INSPECTOR	
687. NAME OF VEHICLE		688. NAME OF COMPANY	
689. ADDRESS OF DRIVER		690. ADDRESS OF COMPANY	
691. PHONE NO. (Area)		692. PHONE NO. (Area)	



DD Form 626 (Cont)



- DD Form 626 is used to verify required documentation for government vehicles including:
 - Checking to ensure the driver's military license has been annotated with the HAZMAT training attended

DD Form 626

MOTOR VEHICLE INSPECTION (TRANSPORTING HAZARDOUS MATERIALS)													
(Read Instructions before completing the form.)													
This form applies to all vehicles which must be marked or placarded in accordance with Title 49 CFR.				1. GOVERNMENT BILL OF LADING/TRANSPORTATION CONTROL NUMBER									
SECTION 1 - DOCUMENTATION				ORIGIN a.				DESTINATION b.					
2. CARRIER/GOVERNMENT ORGANIZATION													
3. DATETIME OF INSPECTION													
4. LOCATION OF INSPECTION													
5. OPERATOR(S) NAME(S)													
6. OPERATOR(S) LICENSE NUMBER(S)													
7. MEDICAL EXAMINER'S CERTIFICATE*													
8. (X if satisfactory at origin)								9. CVSA DECAL DISPLAYED ON COMMERCIAL EQUIPMENT*					
a. MILITARY HAZMAT ENDORSEMENT				d. ENG OR EQUIVALENT COMMERCIAL		YES		NO		YES		NO	
b. VALID LEASE*				e. DRIVER'S VEHICLE INSPECTION REPORT*				a. TRUCK/TRACT OR					
c. ROUTE PLAN				f. COPY OF 49 CFR PART 39T				b. TRAILER					
SECTION II - MECHANICAL INSPECTION													
All items shall be checked on empty equipment prior to loading. Items with an asterisk shall be checked on all incoming loaded equipment.													
10. TYPE OF VEHICLE(S)						11. VEHICLE NUMBER(S)							
12. PART INSPECTED (X as applicable)		ORIGIN (1) SAT (2) UNSAT		DESTINATION (1) SAT (2) UNSAT				ORIGIN (1) SAT (2) UNSAT		DESTINATION (1) SAT (2) UNSAT		COMMENTS (1)	
a. SPARE ELECTRICAL FUSES						h. EXHAUST SYSTEM							
b. HORN OPERATIVE						i. BRAKE SYSTEM*							
c. STEERING SYSTEM						m. SUSPENSION							
d. WINDSHIELD/WIPERS						n. COUPLING DEVICES							
e. MIRRORS						o. CARGO SPACE							



Government Bill of Lading



- Used when civilian company is moving government goods
- Note that a DD Form 626 is also required for HAZMAT shipments.

USA COMMERCE BELL OF ANKARA		1. NAME OF THE COMPANY 2. ADDRESS 3. TELEPHONE 4. TELETYPE 5. TELEX 6. POSTAL CODE 7. CITY 8. COUNTRY 9. DATE OF ISSUE 10. DATE OF EXPIRATION 11. DATE OF CANCELLATION 12. DATE OF REISSUE 13. DATE OF REVOCATION 14. DATE OF SUSPENSION 15. DATE OF RESCUE 16. DATE OF RECALL 17. DATE OF REPAIR 18. DATE OF REUSE 19. DATE OF REVENUE 20. DATE OF REVENUE 21. DATE OF REVENUE 22. DATE OF REVENUE 23. DATE OF REVENUE 24. DATE OF REVENUE 25. DATE OF REVENUE 26. DATE OF REVENUE 27. DATE OF REVENUE 28. DATE OF REVENUE 29. DATE OF REVENUE 30. DATE OF REVENUE 31. DATE OF REVENUE 32. DATE OF REVENUE 33. DATE OF REVENUE 34. DATE OF REVENUE 35. DATE OF REVENUE 36. DATE OF REVENUE 37. DATE OF REVENUE 38. DATE OF REVENUE 39. DATE OF REVENUE 40. DATE OF REVENUE 41. DATE OF REVENUE 42. DATE OF REVENUE 43. DATE OF REVENUE 44. DATE OF REVENUE 45. DATE OF REVENUE 46. DATE OF REVENUE 47. DATE OF REVENUE 48. DATE OF REVENUE 49. DATE OF REVENUE 50. DATE OF REVENUE 51. DATE OF REVENUE 52. DATE OF REVENUE 53. DATE OF REVENUE 54. DATE OF REVENUE 55. DATE OF REVENUE 56. DATE OF REVENUE 57. DATE OF REVENUE 58. DATE OF REVENUE 59. DATE OF REVENUE 60. DATE OF REVENUE 61. DATE OF REVENUE 62. DATE OF REVENUE 63. DATE OF REVENUE 64. DATE OF REVENUE 65. DATE OF REVENUE 66. DATE OF REVENUE 67. DATE OF REVENUE 68. DATE OF REVENUE 69. DATE OF REVENUE 70. DATE OF REVENUE 71. DATE OF REVENUE 72. DATE OF REVENUE 73. DATE OF REVENUE 74. DATE OF REVENUE 75. DATE OF REVENUE 76. DATE OF REVENUE 77. DATE OF REVENUE 78. DATE OF REVENUE 79. DATE OF REVENUE 80. DATE OF REVENUE 81. DATE OF REVENUE 82. DATE OF REVENUE 83. DATE OF REVENUE 84. DATE OF REVENUE 85. DATE OF REVENUE 86. DATE OF REVENUE 87. DATE OF REVENUE 88. DATE OF REVENUE 89. DATE OF REVENUE 90. DATE OF REVENUE 91. DATE OF REVENUE 92. DATE OF REVENUE 93. DATE OF REVENUE 94. DATE OF REVENUE 95. DATE OF REVENUE 96. DATE OF REVENUE 97. DATE OF REVENUE 98. DATE OF REVENUE 99. DATE OF REVENUE 100. DATE OF REVENUE	
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~~GBL~~

U.S. GOVERNMENT BILL OF LADING		MEMORANDUM COPY		B/L NO. > M2536514	
1. TRANSPORTATION COMPANY TENDERS TO AMERICAN MARINE CORP. INC.		2. DATE B/L PREPARED 01/01/00		4. ROUTE ORIGIN/DESTINATION NEW YORK/LOS ANGELES	
3. DESTINATION (Name, address, and ZIP code) MARINE AIR STATION TRAFFIC MANAGEMENT BLDG 149 CHERRY POINT, NC 28535-5840		5. ORIGIN (Name, address, and ZIP code) 375 A WILGETT TRAFFIC MGT FLT 100 SOUTH ADAMS STREET BLDG 4001 SCOTT AFB IL 62225-5465			
6. CONSIGNEE (Name, address and ZIP code of installation) MARINE AIR STATION TRAFFIC MANAGEMENT BLDG 149 CHERRY POINT, NC 28535-5840		7. SPLICING (Date) 01/01/00			
8. APPROPRIATION (Chargeable Advice) FAS		9. BILL OF LADING (If applicable, include mailing address and ZIP code) COMMANDING GENERAL MARINE CORP MARINE CORPS LG BASE, CODE 476 AT FORTY, GA 31704-5000		AGENCY LOG CODE C1306	
10. MARKS AND ANNOTATIONS MARINE AIR STATION TRAFFIC MGMT BLDG CHERRY POINT, NC		11. EMERGENCY PHONE # 1-800-851-8061			



Shippers Certification



- 49 CFR, Para 172.204 - "...each person who offers a hazardous material... shall certify that the material is offered in accordance with this subchapter by printing (manually or mechanically) on the shipping paper containing the required shipping description the certification"



Shippers Certification (Cont)



- "This is to certify that the ('above-named' or 'herein-named') materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulation of the Department of Transportation"
- There are several ways to word the certification. consult Para 172.204 for variations, i.e., air.



612-302-03

[illegible]

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper
ABC Company
1000 High Street
Gauguin, Detroit
Canada

Air Waybill No. 800 1234 5678

Page 1 of 1 Pages

Shipper's Reference Number
(optional)

Consignee
CBA Ltd
50 Rue de la Paix
Paris 75 008
France

For optional use
for
Company logo
name and address

Two completed and signed copies of this Declaration must
be handed to the operator.

WARNING

Failure to comply in all respects with the applicable
Dangerous Goods Regulations may be in breach of
the applicable law, subject to legal penalties. This
Declaration must not, in any circumstances, be
completed and/or signed by a consolidator, a
forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the
limitations prescribed for
(where not applicable)

Airport of Departure

Gauguin

☒ PASSENGER-
AND-CARGO-
AIRCRAFT

☐ CARGO
AIRCRAFT
ONLY

Airport of Destination Paris, Charles de Gaulle

Shipment type: (where not applicable)

☒ NON-DANGEROUS ☐ DANGEROUS

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification

Proper Shipping Name	Class or Division	UN or ID No.	Pack- ing Group	Sub- sidi- ary Risk	Quantity and type of packing	Packing Inst.	Authorization
Menthol	6.1	011654	II		1 Steel drum 20 L	617	
Self-reactive solid type V (Benzene Substituted-oxide)	4.1	015226	II		1 Fibreboard box 10 kg	430	



Convoy to APOE



- Deploy by:

- Surface



DD
Form
626

DD
Form
836

Regulations
49 CFR
DOD 4500.9-R, Part II



- Air



Shippers
Declaration
for
Dangerous
Goods

Regulations
TM 38-250
IATA

Note: Three separate HAZMAT forms are required



Convoy to SPOE



- Deploy by:

- Surface



DD
Form
626

DD
Form
836

Regulations
49 CFR
DOD 4500.9-R, Part II



- Sea



Shippers
Declaration
for
Dangerous
Goods

Regulation
IMDGC

Note: Three separate HAZMAT forms are required



Commercial Truck / Rail to APOE



- Deploy by:

- Com'l Surface



GBL

DD
Form
626



Regulation
49 CFR
FR 55-1
DOD 4500.9-R,
Part II

- Air



Shippers
Declaration
for
Dangerous
Goods

Regulations
TM 38-250
IATA

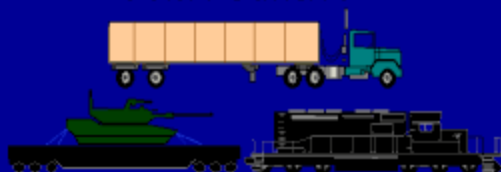
Note: Three separate HAZMAT forms are required



Commercial Truck / Rail to SPOE



- Deploy by:
 - Com'l Surface



GBL
+
DD
Form
626

Regulation
49 CFR
FR 55-1
DOD 4500.9-R,
Part II

- Sea



Shippers
Declaration
for
Dangerous
Goods

Regulation
IMDGC

Note: Three separate HAZMAT forms are required



Emergency Response Information



- Emergency response information provided on shipping documents must be printed in English and include:
 - A 24-hour emergency response telephone number (with area code & international access codes) monitored at all times by a person who is knowledgeable in the material and emergency response procedures



Training Requirements



- Mandatory for all involved with preparation, shipment or certification of HAZMAT for transportation
- Training documented in personnel records until 90 days following separation from DOD
- HAZMAT training is good for 2 years, then refresher courses are required
- Certifier and packaging personnel are appointed in writing by unit commander



Certification Training Requirements



- Certification training must be accomplished at one of four DOD schools located at:
 - U.S. Army Defense Ammunition Center, Savanna, IL
 - School of Military Packaging Technology, Aberdeen Proving Grounds, MD
 - Navy Supply Corps School, Athens, GA
 - 345 TRS / TTTD, Lackland AFB, TX



Hazardous Materials Information



Classifying HAZMAT



- Three steps to proper HAZMAT Classification:
 - ① Correctly identify & classify material into one of the nine Hazard Classes
 - ② Determine any subsidiary risks
 - ③ Assign the item to one of the 3 Packing Groups, if applicable
- Note: A single material may fall into several hazard classes



Identifying HAZMAT



- HAZMAT must be identified by its Proper Shipping Name as listed in the appropriate modal regulation
 - Trade Names (for example, "Drop Dead Fly Trap") are NOT considered proper shipping names
 - Pesticides, solid, toxic, n.o.s. would be the Proper Shipping Name for the above product



Identifying HAZMAT (Cont)



- HAZMAT must also be identified by the Chemical Name of the primary hazardous ingredient & proper ID number
 - Example: Dithiocarbamate pesticide, solid, poisonous UN2771
- Packing Group (if applicable) must also be identified



Identifying HAZMAT (Cont)



- Packing Groups (PG): indicate degree of danger presented by the material
 - PG I: Great Danger
 - PG II: Medium Danger
 - PG III: Minor Danger



Identifying HAZMAT (Cont)



- Packing Group classification example:

- Hydrogen Peroxide:

Pure -100%: = PG I

7-10% Diluted: = PG II

50 -70% Diluted: = PG III





Identifying HAZMAT (Cont)



- ID numbers are not required for:
 - Limited Quantity
 - Consumer Commodity ORM-D





Hazardous Material Class Labels





9 Hazard Classes



- Class 1 - Explosives
 - Divisions 1.1 - 1.6
 - + Examples: Cartridges for weapons, signal flares, safety fuses, dynamite, fireworks
- Class 2 - Gases
 - Division 2.1 Flammable Gas
 - + Examples: Butane, hydrogen, aerosols





9 Hazard Classes (Cont)



- Class 2- Gases (Cont)
 - Division 2.2 Non-flammable Gas
 - + Examples: Liquefied nitrogen, helium
 - Division 2.3 Toxic Gas
 - + Examples: Aerosols of low toxicity & some tear gas devices
- Class 3 - Flammable Liquids
 - By Ocean Divisions 3.1, 3.2 & 3.3
 - + Examples: Paint, gasoline, fuel oil





9 Hazard Classes (Cont)



- Class 4 - Flammable Solid
 - Division 4.1 Flammable Solid
 - + Examples: Matches, sulphur, Nitronaphthalene
 - Division 4.2 - Spontaneously Combustible
 - + Examples: White or yellow phosphorus, magnesium diamide
 - Division 4.3 Dangerous When Wet
 - + Examples: Calcium carbide, sodium, lithium





9 Hazard Classes (Cont)



- Class 5 - Oxidizing Substances & Organic Peroxides
 - Division 5.1 Oxidizer
 - + Examples: Ammonium nitrate fertilizer, pool chlorine
 - Division 5.2 Organic Peroxides
 - + Examples: MEK peroxide, dibenzoyl peroxide





9 Hazard Classes (Cont)



- Class 6 - Poisonous (Toxic) Substances & Infectious Substances
 - Division 6.1 Poisonous (toxic) substances
 - + Examples: Nicotine, cyanide, arsenic
 - Division 6.2 Infectious Substances
 - + Examples: Diagnostic specimens, biological products





9 Hazard Classes (Cont)



- Class 7 - Radioactive Materials
 - Examples: Medicines, instruments
- Class 8 - Corrosives
 - Examples: Battery acid, mercury





9 Hazard Classes (Cont)



- Class 9 - Miscellaneous Dangerous Goods
 - Examples: Dry ice, cosmetics, life rafts, asbestos, magnetized materials, consumer commodities, other regulated substances, internal combustion engines, motor vehicles





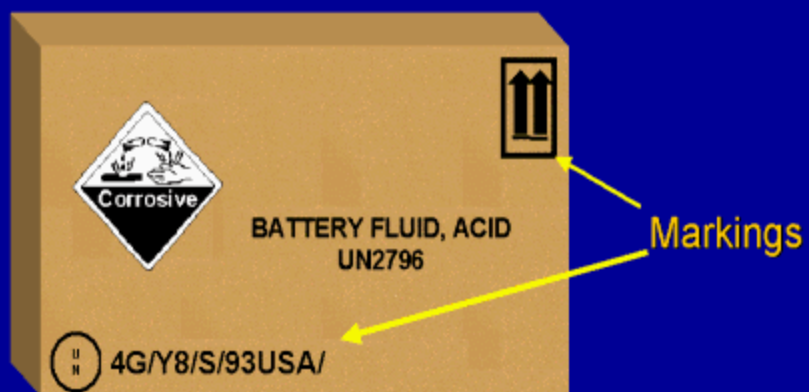
HAZMAT Packaging & Marking/Labeling



- Use UN or other authorized packaging
- Packaging materials must be compatible with the hazardous material being packaged
- Multiple substances in one package must be compatible with each other
- In addition to shipper/consignee information, HAZMAT shipments require additional marking/labeling



HAZMAT Marking/Labeling





HAZMAT Marking/Labeling (Cont)



- Markings must be:
 - Durable
 - In English
 - Un-obscured
 - Sharp contrasting background
 - Away from other markings



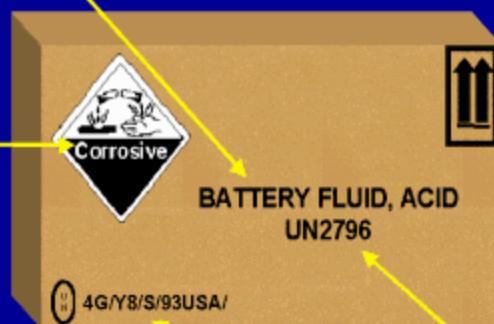
HAZMAT Marking/Labeling (Cont)



Proper shipping name

Orientation arrows

Hazardous
Label



UN Packaging No.

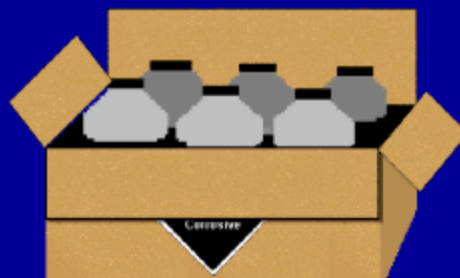
Identification number



Liquid Hazardous Material



- Closures in upright position



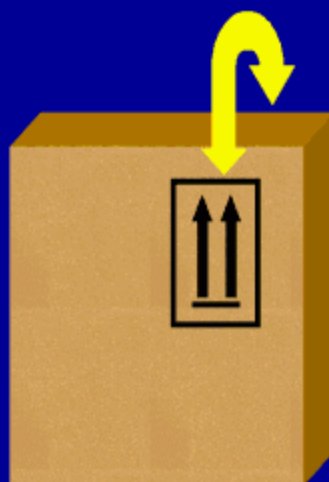
Package



Over pack



Package Orientation Arrows



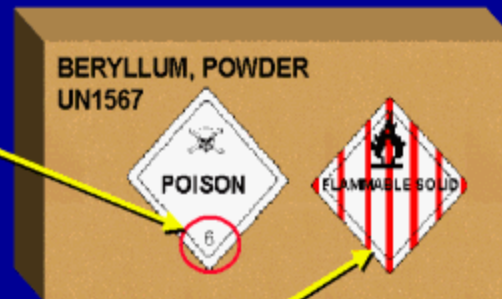
- Orientation arrows must be on two opposite vertical sides oriented in correct upright position



Subsidiary HAZMAT Labeling



- Primary hazard class label with hazard class number



- Subsidiary hazard class label without hazard class number



Special Labels



- Cargo aircraft only





Prohibited Labeling





General Placarding Requirements



Front



Back



Both sides



UMODPC

Not to scale

612-302-03



Hazardous Material Compatibility



- Packages containing HAZMAT which might react with one another may not be stowed next to each other
- Know the Hazard Identify





Hazardous Material Compatibility (Cont)



- HAZMAT segregated by Hazard Classification
 - Flammable / Combustible
 - Corrosives (acids / bases)
 - Oxidizers
 - Compressed Gases
- Use DLA Inst 4145.11 as a guide





Hazardous Material Compatibility (Cont)



- Incompatible = “unwanted reaction”
- Incompatible mixtures may produce:
 - Heat
 - Fire
 - Explosion
 - Toxic gases/vapors

